

Title (en)
CELL STRUCTURE AND METHOD OF MANUFACTURING THE SAME

Title (de)
ZELLENSTRUKTUR UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)
STRUCTURE CELLULAIRE ET PROCEDE DE FABRICATION ASSOCIE

Publication
EP 1704908 A4 20071010 (EN)

Application
EP 05703545 A 20050113

Priority
• JP 2005000306 W 20050113
• JP 2004008263 A 20040115

Abstract (en)
[origin: EP1704908A1] There is provided a cell structure, where the outer wall portion has high heat-insulating ability, the cell structural portion has a high temperature rise rate, and a temperature distribution is more uniform, and a method for manufacturing the cell structure. The cell structure 1 includes: a cell structural portion 4 having partition walls forming a plurality of cells extending from one end face to the other end face, and an outer wall portion 5 disposed on an outer peripheral surface of the cell structural portion 4. The outer wall portion 5 has at least a porous layer having a porosity of 40% or more or a porous layer having a hollow body. The manufacturing method can easily manufacture the cell structure.

IPC 8 full level
B01D 39/20 (2006.01); **F01N 3/02** (2006.01); **B01D 39/14** (2006.01); **B01D 46/00** (2006.01); **B01D 46/24** (2006.01); **B01D 53/86** (2006.01); **B01D 53/94** (2006.01); **B01J 35/04** (2006.01); **B28B 11/00** (2006.01); **B28B 11/12** (2006.01); **C04B 38/00** (2006.01); **F01N 13/14** (2010.01)

CPC (source: EP US)
B01D 46/0036 (2013.01 - EP US); **B01D 46/2429** (2013.01 - EP US); **B01D 46/2444** (2013.01 - US); **B01D 46/24491** (2021.08 - EP US); **B01D 46/2498** (2021.08 - EP); **B01J 35/56** (2024.01 - EP US); **C04B 38/0009** (2013.01 - EP US); **C04B 41/009** (2013.01 - EP US); **C04B 41/5089** (2013.01 - EP US); **C04B 41/52** (2013.01 - EP US); **C04B 41/85** (2013.01 - EP US); **C04B 41/89** (2013.01 - EP US); **B01D 46/2498** (2021.08 - US); **B01D 2257/602** (2013.01 - EP US); **C04B 2111/00793** (2013.01 - EP US); **C04B 2111/0081** (2013.01 - EP US); **F01N 13/14** (2013.01 - EP US); **F01N 2330/06** (2013.01 - EP US); **F01N 2330/48** (2013.01 - EP US); **Y02W 30/91** (2015.05 - EP US); **Y10T 428/24149** (2015.01 - EP US); **Y10T 428/24165** (2015.01 - EP US); **Y10T 428/249961** (2015.04 - EP US); **Y10T 428/249975** (2015.04 - EP US)

C-Set (source: EP US)
1. **C04B 41/009 + C04B 35/00 + C04B 38/0006**
2. **C04B 41/009 + C04B 35/195 + C04B 38/0006**
3. **C04B 41/5089 + C04B 14/46 + C04B 41/4582 + C04B 41/5022**
4. **C04B 41/52 + C04B 14/46 + C04B 41/4582 + C04B 41/5024 + C04B 41/5089**
5. **C04B 41/52 + C04B 14/46 + C04B 18/082 + C04B 41/5024 + C04B 41/5089**

Citation (search report)
[A] US 3441381 A 19690429 - KEITH CARL D, et al

Cited by
EP2008987A4; EP2151553A1; EP1813339A1; EP2358359A4; US7883759B2; US8003191B2; WO2014085432A1; US9067831B2; US9833927B2

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 1704908 A1 20060927; EP 1704908 A4 20071010; EP 1704908 B1 20140402; CN 100431663 C 20081112; CN 1933889 A 20070321; JP 2005199179 A 20050728; JP 4550434 B2 20100922; US 2008220203 A1 20080911; US 7615273 B2 20091110; WO 2005068048 A1 20050728

DOCDB simple family (application)
EP 05703545 A 20050113; CN 200580007909 A 20050113; JP 2004008263 A 20040115; JP 2005000306 W 20050113; US 58535005 A 20050113